



## SEQUENCE LISTING

#6

<110> Schlegel, Robert  
Endege, Wilson  
Monahan, John

<120> COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION,  
ASSESSMENT, PREVENTION, AND THERAPY OF HUMAN  
PROSTATE CANCER

<130> MRI-007A

<140> US 09/768,827

<141> 2001-01-24

<150> US 60/178,525

<151> 2000-01-24

<150> US 60/183,245

<151> 2000-02-17

<150> US 60/190,139

<151> 2000-03-16

<150> US 60/208,126

<151> 2000-05-31

<150> US 60/219,705

<151> 2000-07-18

<150> US 60/255,160

<151> 2000-12-13

<160> 101

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(395)

<223> n = A,T,C or G

<400> 1

```
ctacttaggg cgaattggag ctccccgcgg tggcgggccga ggtacgcggg gagagtgttc 60
cagacagaag aaatagcaag tgccgagaag ctggcatcag aaaaacagag gggagatttg 120
tgtggctgca gccgagggag accaggaaga tctgcatggt gggaaggacc tgatgataca 180
gaggtgagaa ataagaaaag ctgctgactt taccatctga ggccacacat ctgctgaaat 240
ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa gtagtgacat 300
gtttttgcac atttccagcc cttttaaatn tccacacaca caggaagcac aaaaggaagc 360
acagagatcc tgggagaaat gcccggcccg ctcta 395
```

<210> 2

<211> 237

<212> DNA

<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(237)  
<223> n = A,T,C or G

<400> 2  
ccgcggtggc ggccgaggtg ccaangtcaa gtcaccataa tgtntttnac ctgttttcaca 60  
atgttctaca ttatcgtgga aatgttgaca aggtctcnag caagactgg atctncantg 120  
gnttttaaaat acaatnntcc atttcggaaa ttganggaaa aagatctttt ncaanctgga 180  
agagtcttct tgtaaatagg aatcacnggg ctacacctgc tgacgacctt gggtttn 237

<210> 3  
<211> 463  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(463)  
<223> n = A,T,C or G

<400> 3  
ttagggcgaa ttggagctcc ccgcggtggc ggccgaggta ctatatggac accaacaatgg 60  
agcanaaaaat gagggcagca gtgtccaatc tcattccagg tgagaagttg cacagtgtcc 120  
aatagggtgca tacatctcct tagtaagtag ttgtgattaa caatgaaata gaaatgaaaa 180  
atatattttt ttatttatgt gtatttatatt ttccaagcag ctaataagtt ggtaggacat 240  
aatattttaat tcgttgggga cctaattatt tataaattga atggttagat atttcttttg 300  
gcctaagcca ccatgaaaaa atcactgagg cgctaaggga aacatgaact aagaagccct 360  
tctgagttct tgttttctca actgtaagat gaanaaacct gctccacctt cctcttgcca 420  
ttggtgaacg gcagtttgag atactgcgca gaatggacct tat 463

<210> 4  
<211> 434  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(434)  
<223> n = A,T,C or G

<400> 4  
ggagctcccc gcggtggcgg ccgaggtacg cgggggttgt atgtgggttg gcattcttgc 60  
atgatgggag tggccacctg ctttcatatt ctgaagtcag agtggtccag acagaagaaa 120  
tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt ggctgcagcc 180  
gaggagagacc aggaagatct gcatggtggg aaggacctga tgatacagag gtgagaaata 240  
agaaaggctg ctgactttac catctgaggc cacacatctg ctgaaatgga gataattaac 300  
atcactagaa acagcaagat gacaatataa tgtctaanta gtgacatgtt ttttgacat 360  
ttccagcccc tttaaataac cacacacaca ggaagcacaa aaggaagcac agagatccct 420  
gggagaaaatg cccg 434

<210> 5  
<211> 332  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(332)  
<223> n = A,T,C or G

<400> 5  
ctatagggcg aattggagct ccccgcggtg gggcgcgccc gggcatggta cgcggggagg 60  
tggtgttccg tgaatcagca catcaattgc agcattgtgg ctaccagggg gtcaggatgc 120  
ggncggtgga gccctctggc ctttgtgtgg tagccgagga ctctgtgtca gctgaccgtt 180  
ttccggnaaa ctttcgtgcg agactcacat cttggaaatt caaataactca atanctctcg 240  
aattctagga atcttgagaa gaggcctgga ttaangattc anacatgggc cctnanatng 300  
ntatggcatt gctggttcta ccaacgtgac ag 332

<210> 6  
<211> 348  
<212> DNA  
<213> Homo sapiens

<400> 6  
ccgggcaggt accagaactt cagcaaagga agcagacaca ggtcggagga agcctacata 60  
gacccccattg ccatggagta ttacaactgg gggcggttct cgaagcccc agaagatgat 120  
gatgccaaatt cctacgagaa tgtgtctcatt tgcaagcaga aaaccacaga gacaggtgcc 180  
cagcaggagg gcataggtgg cctctgcaga ggggacctca gcctgtcact ggccctgaag 240  
actggcccca cttctggtct ctgtccccct gcctccccgg aagaagatga ggaatctgag 300  
gattatcaga actcagcatc catccatcag tggcacgagt ccaggaag 348

<210> 7  
<211> 188  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(188)  
<223> n = A,T,C or G

<400> 7  
ttagggcgaa ttggagctcc ccgcggtggc ggccgaggta cttttttttt tttttttttt 60  
tttttgacct tgggtatctt ctgcagggtca agccatcctg accactctga gaacttaccc 120  
agggtgactc anctgtcact ccagggtcact cataagccca acgggtagct ccaccctggt 180  
acagctgg 188

<210> 8  
<211> 603  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(603)  
<223> n = A,T,C or G

<400> 8  
cgcggtggcg gcccgccccg gcagggtactt tttttttttt tttttttttt tttttttaag 60  
ggaacgtgaa ttttaatgag ggggcanacc gaggaggtgg tggctgcccc gagatcaggg 120  
ccaggctgtg ctanatggen cctggaaggg gggtcaccca agtctccctg ctatcatttc 180  
aggaggccga cccaagtctc cctgctgtca tttcaggagg ccgaattttt tcccgatccc 240  
anagaagggt tcaaaggcct ggtagcant cttgtcgatg gtttcctggg tggctctggc 300  
canctggtcc atggctttct gccccgcctc tgtggcctgg tccaccactt gctganctgc 360  
cgctccggcc cgctnacacg gtttcctggg cgggtccctc cacctgttgc ttcaggctct 420  
gcaagccctt gcttgccatg gcttcggggg atctgtggag tcntcaagan canctggagc 480  
cacnttgat cctncccaaa gtggcccccg cgtaccctgg cccgtntaaa actatgtgga 540  
atcccccccg cctgcangaa ttccatatca aagcttatng ataccggcg accctcgagg 600  
ggg 603

<210> 9

<211> 429  
<212> DNA  
<213> Homo sapiens

<400> 9  
ccgcggtggc ggccgaggtg cgcggggtca ttactacagg aaaaactgtt ctcttctgtg 60  
gcacagagaa ccctgcttca aagcagaagt agcagttccg ggtccagct ggctaaaact 120  
catcccagag gataatggca acccatgcct tagaaatcgc tgggctgttt ctgtgtggtg 180  
ttggaatggt gggcacagtg gctgtcactg tcatgcctca gtggagagtg tcggccttca 240  
ttgaaaacaa catcgtggtt tttgaaaact tctgggaagg actgtggatg aattgcgtga 300  
ggcaggctaa catcaggatg cagttgcaaa atctatgatt ccctgctggc tctttctccg 360  
gacctacagg cagccagagg actgatgttg cgctgcttcc gtgatgtcct tcttggtttt 420  
catgatggc 429

<210> 10  
<211> 338  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(338)  
<223> n = A,T,C or G

<400> 10  
cgctgatgtt ggccangcga gagggccacg ttctcctgag tgttcagaag ggtcttacag 60  
acgtccaggg gggtcgtggc ggccgcggcg agggcccgcc ccagcccgcc tgagatgatg 120  
tgggactgcy ggttgtaggt ccggtggggg ttgacctgct cctgcaggaa ctcataggtg 180  
atgaagtgga tggactggaa ggggatgttc atggtcagct gcgtggtgta gctccggtag 240  
aaggcccca acccctnggt cctccacacc gtccggatgc aactgattgc tgaccggtgc 300  
tgcnagtgtg acctgcccgg gcggccgctc tagaacta 338

<210> 11  
<211> 561  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(561)  
<223> n = A,T,C or G

<400> 11  
gccgcccggc aggtacaaac ttagaagaaa atnggaagat agaaacaaga tagaaaatga 60  
aaatattgtc aagagtttca gatagaaaat gaaaaacaag ctaagacaag tattggagaa 120  
gtatagaaga tagaaaaata taaagccaaa aattggataa aatagcactg aaaaaatgag 180  
gaaattattg gtaaccaatt tatttttaaaa gcccatcaat ttaatttctg gtggtgcaga 240  
agttagaagg taaagcttga gaagatgagg gtgtttaccg tagaccngaa ccaattttaga 300  
agaatacttg aagctagaag gggaagtgtg ttaaaaaatca catcaaaaag ctactaaaag 360  
gactggtgta atttttaaaa aaactaaggc agaaggcttt tggaagaagt tagaagaatt 420  
tggaaggcct taaatatagt agcttaattt gaaaaaatgt gaaggacctt tcgtaaccgg 480  
aaggtatatt caagatnaaa gaagtaattt accaacctta atggtttttg cctttggggc 540  
ttttgagttt aaagaattan t 561

<210> 12  
<211> 367  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

<222> (1)...(367)

<223> n = A,T,C or G

<400> 12

```
gaatnnggagc tccccgcggt ggcgggccgan gnactcnnga nagagtanaa acgtttccat 60
gttattttctg cagttgtnga cttaggctta tttgtaaaga agcatgctcc attgactgcc 120
atctctagtc ttgcagtggg tggatattaac ccatagaaaag caagcagttg tgtatcacat 180
acacaatggg tatgatgnta accanatcan ctgtttngtt gttcattcgt natatgtttt 240
gtgatangga tgttggggagc acagctctat tctgcctgct cagacttaag ttagaccctt 300
atcttttata ttatgtcatg aaaaaagtct cctaaaaatt gtgaaactag cctcttgatg 360
agtgatg                                     367
```

<210> 13

<211> 464

<212> DNA

<213> Homo sapiens

<400> 13

```
ccgcggtggc ggcccgaggt acatggccac aagaggagcc ctggccaaca gtttcaggct 60
ggccatcttg ggctggggct ccctgggctt gcagtgggga gggtcaggat tcaaattctg 120
ggtgacaatt tcagtagcac caagaccaga agacagttag gccacgctgg ggagtggggg 180
agtgtttgta tgtgggatgc atggagggag gctgcagtat gtggaggaga aagagaggct 240
gttgtgggct ggttcttaag acactcaagg ggactcaaag ggtcggctcc agccatggac 300
actatctaag gctgctcaga ggagaatgct ggaggagagg aagaggaagt gaaatggtgt 360
gagaacattc ttacccttat aaataaacta tttacacact ttaagaaaag gagagccggc 420
tctcagtcgc gcgtacctgc ccggggccggc ccgctctaga acta 464
```

<210> 14

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 14

```
ccgcggtggc ggccgaggtg cgcgggggacc tcagcccagc aattcgtttg gagcatgtga 60
acaccttgag ccttgatgag ttccagtatg tggatatatta tgcagagcat tcagagcaaa 120
tactctctct ccgagcgctt aatccgaaca attgctgcc tccgttcctt cccacatgat 180
aatgtagagg acctcatcag agggggagca gatgtgaact gcactcatgg cactactgaag 240
cccttgcact gtgcctgtat ggtgtcagat gctgactgtg tggagttact tctggaaaaa 300
ggagccgagg tgaatgccct ggatgggtat aaccggaaca gccctccact atgcancaga 360
gaaagatgag gcttgtgttg aggtcctatt ggagtatggt gcaaacccca atgcttttga 420
tggcaacaga gatacccccac ttcactgggt agcctttaag aacaatgctg agtgtgtgcg 480
ggctctccta gagagcgggg cctctgtcaa tgccctgga 519
```

<210> 15

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(422)

<223> n = A,T,C or G

<400> 15

```
aaatccggcg aatngtttct ncaccgcggt ggcggnccgc cgggcaggta cncgggtatg 60
ctgcctggac acacgcagat ttncgtgcta ntcacacaca cagcgagaca tgctgtccgg 120
```

```
acacacacac gcatgcacag atatgctgtc cggacacaca cacgcacgca natatgcttg 180
cctggacaca cacacagata atgctgcctc aacactcaca cacgtgcaga tattgcctgg 240
acacacacat gtgcacagat atgctgtctg gacatgcaca caccgtgcag atatgctgtc 300
cggatacaca cgcacgcaca catgcagata tgctgcctgg gcacacactt tcggacacac 360
atgcacacac aggtgcagat attgctgcct ggacacacgc agactgnacg tgcttttggg 420
ag 422
```

<210> 16

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(360)

<223> n = A,T,C or G

<400> 16

```
aggagtgcag aaccctgtan cccgctgcat catgtgctgt ttcaagngct gcctctggtg 60
tctggaaaaa tttatcaagt tcctaaaccn caatgcatac atcatgatcg ccatctnccg 120
gaagaatttn tgtgtctcag ccaaaaacgc gttcatgctn ctcatgcgaa acattgtcag 180
ggnggtcgtc ctggacaaag tcacagacct gctgntgttc tttgggaagc tgctgggtgg 240
cggaggcgtg ggggtcctgt ccttcttttt tttctccggt cgcattnccg ggctgggata 300
aagactttaa nagcccccac ctnaactatt actggctgcc ccatcatgac cctncantcc 360
```

<210> 17

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(428)

<223> n = A,T,C or G

<400> 17

```
cgcccgggca ggtacattct catcattagg attggttgtt gctgtccttg cacaactggg 60
taaggaaaaa tgaattattc tgtaatttct gaagaatcca aatcctgtct cttataaagt 120
cagaacagaa gggggcaaaa ggtgggtggg agcatcaaga gagaaaaaag gagaaaatta 180
tttacagaaa ataggagaca ngaggggagt tccgcaagaa aagacttcat tgctacttct 240
tcttgccggc cctcttgga ctggactttg ctttggggtt cactggtttg gccttttttg 300
gcttggaatc ctttgaccgg cttggccttg acagtcttgg gtttttttgg cnttcttggg 360
cgtggcagcc aagcttcttc ttggccttct tgaccgcggg tggctttngg ttttcttttg 420
nttggggg 428
```

<210> 18

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(491)

<223> n = A,T,C or G

<400> 18

```
ggtggcggcc gaggtacctc aaaagtgggg aaatcccatc ataactgang acgaaggcag 60
ttcagaagtt cattgatttg ccctaagggt cctcaatttg caaacgtcag gccaatgatc 120
caacccaggg tatgtttggc agtgaaggac cagttgagtc atagctgcaa gtaaccaccc 180
tgcagtggtc cctatcttgg ccgttagctt acattgacat ttaacactca aatttactca 240
```

```
gtaacaccag ctatcatgtt ttccactaaa actccacagc attctggcaa cttttctatt 300
ttagagcaat aaagtaaatt gtttagcatcc ctttgacata taaatatttc tacaaatagt 360
aattctctag ccattcattt ggagtattta aaactcaaca ttcatagcac attttatggg 420
gacaaagaac ttatgttcag aacacaaaaa ataagtcgta cctgcccggg cgggcggtct 480
tngaactagt g                                     491
```

<210> 19

<211> 114

<212> DNA

<213> Homo sapiens

<400> 19

```
acaaaaacca atctacctga tgaaaactcc gttcccttct cgccagaaac ataaaatgcg 60
atggagctac ggccaccgct gccgagacaa aatggcgccg acccccgcgct acct      114
```

<210> 20

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(405)

<223> n = A,T,C or G

<400> 20

```
gagctnccg cgggtggcggc cgcccgggca ggtacttttt tttttctcc ggtcgcatcc 60
cggggctggg taaagacttt aagagcccc acctcaacta ttactggctg cccatcatga 120
cctccatcct gggggcctat gtcacgcca gcggcttttt tcagcggttt tcggcatgtg 180
tgtggacacg cccttcctct gcttcctgga agacctggag cggaacaacg gctccctgga 240
ccggccctac tacatgtcca agagccttct aaagattctg ggcaagaaga acgaggcgcc 300
cccggacaac aagaagagga aggaagtgc agctccggcc ctgatccagg actgcacccc 360
acccccaccg tccagccatt caaccttact tcgccttaca gggtc      405
```

<210> 21

<211> 530

<212> DNA

<213> Homo sapiens

<400> 21

```
ctcactatag ggcgaattgg gagctccccg cgggtggcggc ccgcccgggc aggtactata 60
tggaacacaa catggagcag aaaatgaggg cagcagtgtc caatctcatt ccagggtgaga 120
agttgcacag tgtccaatag gtgcatacat ctcccttagta agtagttgtg attaacaatg 180
aaatagaaat gaaaaatata tttttttatt tatgtgtatt atatttttca agcagctaata 240
aagttggtag gacataatat ttaattcggt gggggacctaa ttatttataa attgaatggg 300
tagatatattc ttttggccta agccaccatg aaaaaatcac tgaggcgcta agggaaacat 360
gaactaagaa gcccttctga gtctctgttt tctcaactgt aagatgaaga aacctactcc 420
accttcctct tgcgattgtt gaacggcagt tgagatactg cgcagaatgg gaccttattg 480
atggcctacc caacatccat tctctactcc ctctactctg atggcacccg      530
```

<210> 22

<211> 195

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(195)

<223> n = A,T,C or G

<400> 22

```
ccgcggtggc ggccgaggta cgcgggggtt tcagggtcgt aggacgccgt tgggcaccac 60
gctcggagaa ggacaggaca atggcgccct taggggtccc gtcgcacact ttctgaggac 120
ttctgcggga gttgcgctac ctgagcgcg gacaccggccg ctctagaact aagtggatcc 180
ccccggcttg canga 195
```

<210> 23  
<211> 198  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(198)  
<223> n = A,T,C or G

```
<400> 23
ctccccgcgg tggcggccga ggtacgcggg gctctatata agtgggcagn ggccgngact 60
gcgcgcagac actgaccttc agcgccctngg ctccagcgcc atggcgccct ccaggaagtt 120
cttcggttgg ggaactgga agatgaacgg acggaagcag antctggggg agctcatcgg 180
cactctnaac gcggccaa 198
```

<210> 24  
<211> 620  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(620)  
<223> n = A,T,C or G

```
<400> 24
ccaccgcggt ggcgcccgag gtacagtggc acctgggaaa aggcacctgg aaggtttcca 60
tgtggcccag cccagcatgg aagcagggtg ggaactctgc tgtgtcgcca gcgctcactc 120
tactcgagtg gctttttgaa agccctacca tgtctgtgtc aggcctgtgc tgcttcacat 180
cctacagctg cctaggaaa ggcggccacg ctccctgtcc acacactccc tgtccacaca 240
ctccctgtcc acacactccc tgtccacaac tgcagccggg ccctctgcct atgggcaccc 300
aatccaagca gctgctccac ctttgtttgg catggtgatt tgtgtttttt ctcttggcgc 360
ttatgtgtgt gggcttgga cgaagtgtg gtatgcactt aggaccttct tgatagctcc 420
ctgcactttg gaacacggag caaatgaaaa aagggtcggg gcttgccctc caccttggac 480
ttggaagaag cccacattgg agangtgaag gaccccatgg tggctctagt gggaaaatac 540
gttagcctca anctnaggan ggatgaggcc aaccccaana gggagacctt aattgatagg 600
ggatcangct aaaaaaatgg 620
```

<210> 25  
<211> 349  
<212> DNA  
<213> Homo sapiens

```
<400> 25
aggtactcgc gctgttcttc tgttatcatc cagggttcgt cggggtaact gctgttatcc 60
tgtagtccc tctccactga aaaagaccgg ataagggaag cctgatgccg aaggggcttg 120
gttcctgggc cccctgatga ggatccctcg ggctggacaa gggcctgcct agcttcataa 180
ggctcgtgat gcatctgttc tgcgttgctc cgcagtttgc ttagccatg gctcaagggc 240
accctctggt aatgaggcgg ggaagaagga ggggagggca ggggtgacat cgtgggagac 300
tgtgtttcct gctgtttatc ctcatcgctc attcttttga aggaatttt 349
```

<210> 26  
<211> 434  
<212> DNA  
<213> Homo sapiens



<220>  
<221> misc\_feature  
<222> (1)...(434)  
<223> n = A,T,C or G

<400> 26  
ccgcggtggc ggccgcccgg gcaggtacgc ggggattgtg gcagctggag gtctctgcat 60  
cgcttatccg tttattagcc ggaccaagat tgcacagcta aagtctggca gagactccac 120  
ggtatgactg tcctcactgg gcctgtccac agtgcgagcg actcctgagg ggaacagcgc 180  
cggagttcag gagtccaagc acaaagcggc cttttacatt ccaacctgtt gcctgccagc 240  
cctttctgga ttactgatag aaaatcatgc aaaacctccc aacctttcta aggacaagac 300  
tactgtggat tcaagtgtt taatgactat ttatgcgttg actgtgagaa tagggagcag 360  
ngccatggga catttctagg tgtagagaaa gaagaaactg caatggaaaa atttgtatga 420  
ttccattta tttc 434

<210> 27  
<211> 480  
<212> DNA  
<213> Homo sapiens

<400> 27  
ccgcggtggc ggccgaggtg cagtgggttaa tttgtcacia ctgactgagg catcacaaca 60  
acagcagcag tcaccactac aagaacaagc acagacttta cagcagcaga tttcatcaaa 120  
tattttttcca tcaccaaata gtaacaacat gcctggaatt caaggagcca catcttcgcc 180  
ttcaaccaca ggctactttt atttcacaac acagcaggag gcacaatgaa ccaactgcag 240  
aattctcctg gctcatctca gcagacatca ggaatgttct tatttggtcat tcaaaataac 300  
tgtagtcagc ttttaacctc tggaccagct acattgcctg atcagttgat ggccataagt 360  
cagccaggcc aaccacaaaa cgagggccag ccacctgtga caacacttct ttctcagcaa 420  
atgccagaga attctccact ggcatcctct ataaacacca accagaacat cgaaaagatt 480

<210> 28  
<211> 472  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(472)  
<223> n = A,T,C or G

<400> 28  
ctacttaggg cgaattggag ctccccgcgg tggcggcgcg ccgggcaggt actctgggtca 60  
tcttcgttcg tttggctcgt caaggtgtta actattttca cttcccatat caciaagtta 120  
gtccacagga ggagctggtg gatcttgtcc attatgagga ctggttggct ttccaggtag 180  
gctggatcct nttagattag gaggtgtcga gtaagaacag gatcaatgca ataaccatcc 240  
aggctaccaa gatnattgta aactgatgc cnttatnacc agagggtccc ggtaattnct 300  
gaanacactc tgtgtctgtg cagtatgatt gggactgccg tancanattg ntcagtcttc 360  
tcantgcatn gtttcatgag agcaaaacac attnacaggg atcaaattcc accttcttgc 420  
ccattattac ccagcttgga tttttacttg gacctntttt taaaatcccn cc 472

<210> 29  
<211> 449  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(449)  
<223> n = A,T,C or G

<400> 29  
cccgcggtgg cggccgaggt actgcgtggc cgtccgctgt tgtgtggcct gggccgcaaa 60  
ccggggccacg tggttgacaa tgggggagaa attggttagga ccgtagaagc ggatgtgggg 120  
caggcaagct gagtacgcct gggcaatacc atccacacct gagcagaagg ggttgggtggg 180  
gttgaagttg atggcaaaact catgggagac cttccagtct gggggtaact gggccccgaa 240  
tcccagagct ggaaacatct tatcactgtc gtagtcctga atgatctgcc caacagccca 300  
gatggccgac agatattcgt tggtgcccat aggggtgata tantgcaaag aggaaggggtc 360  
gaggggattc ccgttggagg ctgtaaagtc tattccaacg gtgaacatga gctggcagcc 420  
tcccaggacg tagtcaagga aggagtagt 449

<210> 30  
<211> 400  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(400)  
<223> n = A,T,C or G

<400> 30  
ccgcggtggc ggccgaggtc tgaactgcgg ggtctctatc gcactgctag gggttctgct 60  
gctgggtgcg gcgcgcctgc cgcgcggggc agaagctttt gagattgctc tgccacgaga 120  
aagcaacatt acagttctca taaagctggg gaccccgact ctgctggcaa aaccctgtta 180  
catcgtcttt tctaaaagac atataaccat gttgtccatc aagtctggag aaagaatagt 240  
ctttaccttt agctgccaga gtccctgagaa tcactttgtc atanagatcc agaaaaatat 300  
tgactgtatg tcaggcccat gtcccttttg ggaggttcag cttcagccct cgacatcggt 360  
gttgccctacc ctcaacagaa ctttcatctg ggatgtcaaa 400

<210> 31  
<211> 122  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(122)  
<223> n = A,T,C or G

<400> 31  
tgatcttcag ctgctcctga actttggcac tgtaagggtt ctctgtatcg tatggtgggtg 60  
acaaagcttt taaaataacc tntcctccag tgcattgaaa aggactggag tatttatnaa 122  
gt

<210> 32  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 32  
acttgtgagc ctggactggc tccccggcc tcctacatga accccttccc ggtgctccat 60  
ctcatcgagg acttgaggct ggccttggag atgctggagc ttcctcagga gagagcagcc 120  
ctcctgagcc agatccctgg cccaacagct gcctacataa aggaatgggt tgaagagagc 180  
ttgtcccagg taagccacca cagtgtctgt agtaatgaaa cctaccagga acgcttggca 240  
cgtctagaag gggataagga gtccctcata ttgcagggtga gtgtcctcac agaccaagta 300  
gaagcccagg gagaaaagat tcgagacctg gaagtgtgtc tggaaggaca ccaggtgaaa 360  
ctcaatgctg ctgaagagat gcttcaacag gagctgctaa gccgcacatc tcttgagacc 420  
cagaagctcg atctgatgac tgaagtgtct gagctgaagc tcaagctggt tggcatggag 480  
aaggagcaga gagagcagga ggagaagcag agaaaagcag aggagttact gcaagagctc 540  
aggccccctca aaatcaaagt ggaagagttt ggaaa 575

<210> 33  
<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(422)  
<223> n = A,T,C or G

<400> 33  
gggagtggag cgggtgaacac gtcaggggtg gggggcgag gtcaagcttt caccagtttt 60  
taattctttg atggggtaaa tttgagcaat tttctcgact tgtcgacatt cgttattaac 120  
tgancaggaa tcagganagg aaccgcgtcc tctccacaca gccagcana gaggctacga 180  
ctagatttgc atctttacgt cctgcgcgga ggctgctaca cacatgcana agtcatgctg 240  
gtggcctgga cattgaagg agagaagtgg atttgggaga catttaggag gcaccgaaag 300  
cgaaggaagc tcctgctcct cctaaagccg aagccaaagc aaaggcttta aaggccaaga 360  
aggcagtgtt gaaaggtgtc cgcagccaca cgcaaaaaag aggatccgca tgtcactcac 420  
ct 422

<210> 34  
<211> 702  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(702)  
<223> n = A,T,C or G

<400> 34  
accgcggggg cggccgnggn ttengcctgg aggagctcag ggtggccggc attcacaaga 60  
aggtggcccg gaccatcggc atttctgtgg atccgaggag gcggaacaag tccacggagt 120  
ccctgcagac caacgtgcag cggctgaagg agtaccacaa agggacccaa attcagcggg 180  
ctgtgcctac aaacttcatt aataactgct tgcagattgg cagctatctg gtcacttgac 240  
atatccaatg ttgctatttt ggtctggaga aagttctccc tttcttcatc taccttaatt 300  
tcatgtccat ttttaaataa ttcaaacatt ttggggatgt cacggccaat ggaatttcga 360  
gaaagctttg gatatttttt attcagtttc ttcttaatc gattaagttc aggcatatt 420  
tctggaacag ctacgtaaaa gtctgcaaca atttcatcat cccaaatctt ctgtatcaga 480  
ctaagtgcct cctgcaaagt cagctccatt ttcttccgct attttgacct ctgatgcatt 540  
ctctgtaaat acagcaactt tattgatttc cgaagccaat gggatggca aactaanaac 600  
actggtaaat ggcttcacgt tttcttntt ttccagtgc atatncagtg tcaaaatcaa 660  
anaaaacact ttgctttgga ctagttaaag ccaanaattt ga 702

<210> 35  
<211> 597  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(597)  
<223> n = A,T,C or G

<400> 35  
acatcttcca ggacaaggta aactctgaca tgcactaggt atgtgcagat cccggcccct 60  
gccacccagc ctcatgcaag tcatccccga catgaccttc acgaccgcaa tgcaaggagg 120  
ggaagaaagt cacagcactg atgaggacag ctgcagagggt ggacgtgtgt ggacacagga 180  
agtttgggcc ccctccctgc cccagctttc ctaggccaga attgtgtttg gcagtaattg 240  
tctgttttaa aaaataaaaa ggagaggaag cgttcaccgc cacaaatcat aaatggaca 300

```
tgactgtgga gtcttacagt tcaggggttct ttcattcacg tcccttctctg tctcgggtctg 360
cggtcttttac cacatcaata ggacttttta tgcgtccggg ttaatttttc actccagtgc 420
gtcctgtttgc agggaccgga gctgatggga gctgcttctc cccatgcctc actggtccca 480
gatcanggct tcagggacag atgatgagtc tcaaacgagc cancaggggt tcttttgggt 540
ataaatgggc aattcgncct gtcttaagnc tgatgacctc anccgtgggt tttggat 597
```

<210> 36

<211> 457

<212> DNA

<213> Homo sapiens

<400> 36

```
tagggcgaaat tggagctccc cgcggtggcg gccgaggtac ctgagccagg aggaggccca 60
ggccgtggac caggagctat ttaacgaata ccagttcagc gtggaccaac ttatggaact 120
ggccgggctg agctgtgcta cagccatcgc caaggcatat cccccacgt ccatgtccag 180
gagccccct actgtcctgg tcatctgtgg ccggggaat aatggaggag atggtctggt 240
ctgtgctcga cacctcaaac tctttggcta cgagccaacc atctattacc caaaaggcc 300
taacaagccc ctcttactg cattgggtgac ccagtgtcag aaaatggaca tcccttctc 360
tggggaaatg ccgcagagc ccatgacgat tgatgaactg ttgagctggt ggtggatgcc 420
atctttggct tcagcttcaa gggcgatggt cggaac 457
```

<210> 37

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(433)

<223> n = A,T,C or G

<400> 37

```
agtacttcta gaattaatta aggcggggcg ctgcantccc agntacncgg naggctgagg 60
caggagaatg gcgtgaaccc angaggcgga gcttgacgtg agctgagatc gcgccactgc 120
nctccagcct gggcaacaga gtgagactcc gtcccgctaa naaatnanaa aanaanaann 180
ccnggccnc ccnctggngn ntcccanat ccnnttttn tgaatttttt tcccccccc 240
nnntggncct gttttctact agtgatgac tggtaatata caatttgtcc agtagccagt 300
ttgtttttat tgtgttttct aaccataaga gatcattaaa ggcaaagcct gtatgacgct 360
gtacacacac aaaaaaatgg tcaccgcagg ccatactacc aatgaaatgg taggtaaaca 420
aatcttctgg tca 433
```

<210> 38

<211> 420

<212> DNA

<213> Homo sapiens

<400> 38

```
agtacttcta gaattaatta aggcggggac accacttttc aaaggacttc ttggtttcag 60
cataacctaa gacagggaat tgggagccat catatgtcac agtggtcaga attcaagcat 120
atttaagggc attttctttg attctcaaag ttcagcattc attttgaatt gagaagccta 180
tacatttagc tgacaaagtg cttatagaat ttcttaacaa ctgaaccatt caaaaggatt 240
ttttttgttt aaaactggat ttcaatgtaa gcaaatgaag aaaaaatat agatttcatt 300
tccatagctt cttatccctg tattgaggta ataaattgtt ttactgacaa ttttcccttt 360
ttctacacta aaacaatatg tgatatattt cccctcttga agaggcaatt cattaaactc 420
```

<210> 39

<211> 86

<212> DNA

<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(86)  
<223> n = A,T,C or G

<400> 39  
agtactttcta gaattaatta aaacagacaa ttcttaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaan 86

<210> 40  
<211> 428  
<212> DNA  
<213> Homo sapiens

<400> 40  
agtactttcta gaattaatta aggcgggggag ttttatctat tctttacatt ggatgcaaaa 60  
tgtattactc aagaagaggc attcgggtatc gaaccataga tgaacatgat gccatcattt 120  
aaggaaatcc atggaccaag gatggaatac agattgatgc tgccctatca attaatTTTg 180  
gtttattaat agttttaaac aatattctct ttttgaaaat agtataaaca ggccatgcat 240  
ataatgtaca gtgtattacg taaatatgta aagattcttc aaggtaacaa gggtttgggt 300  
tttgaaataa acatctggat cttatagacc gttcatacaa tggtttttagc aagttcatag 360  
taagacaaac aagtcctatc tttttttttt ttggctgggg tgggggcatt ggtcacatat 420  
gaccagta 428

<210> 41  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 41  
agtactttcta gaattaatta aggcggggtcc ctgcttggtcc tatgaactgc tcagagctcc 60  
tgtcagtccta gctgggcctt ctgggttctg gcaccatttc gtagccattc tctttgtatt 120  
ttaaaggac gttatgaaag ggcttagacc aaaataaatc ataatgttac ttgagccacc 180  
ttatatagct gcttgagag tctatgtagt tctttctgca tgcattaaaa atgttttagaa 240  
atgctt 246

<210> 42  
<211> 153  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(153)  
<223> n = A,T,C or G

<400> 42  
agtactttcta gaattaatta aggcgggggtc tagctcctta tttatctaaa taaagtTTTta 60  
ctggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaant taaaaaaaaa aaaaaaaaaa aaa 153

<210> 43  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 43  
agtactttcta gaattaatta aggcgggggga aagtttagagg aactgaaagt ttgggaatag 60  
gctgaccaca tattatgcca gtgaccagta tgacaggaga tggggccctg ctgccagtca 120  
tctccactga ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 160

<210> 44  
<211> 89  
<212> DNA  
<213> Homo sapiens

<400> 44  
agtacttcta gaattaatta aggcggtcgg ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 89

<210> 45  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 45  
agtacttcta gaattaatta aggcgggtcc ctgcttgtcc tatgaactgc tcagagctcc 60  
tgtcagtcga gctgggcctt ctgggttctg gcaccatttc gtagccattc tctttgtatt 120  
ttaaaaggac gttatgaaag ggcttagacc aaaataaatc ataatgttac ttgagccacc 180  
ttatatagct gcttggagag tctgtgtagt tctttctgca tgtattaaaa atgttttagaa 240  
a 241

<210> 46  
<211> 263  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(263)  
<223> n = A,T,C or G

<400> 46  
gccctgggaa acgattgtga acgcntgaat gaattgatga ctaanatccg ctgcgggggt 60  
cctacagcgc anattgtaat gcccgttctg actggctggg aacggcacct tagcaagata 120  
cttaaaaggc gccttctgtg tgccacntgc actccaccct gggcaacaga gcaaanaccc 180  
catctcaaaa ataaataaat atatataaaa aataaaaagc tatttctagt ttnatttcac 240  
tataaagttt tgcttttatt aaa 263

<210> 47  
<211> 277  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(277)  
<223> n = A,T,C or G

<400> 47  
agtacttcta gaattaatta aggcggggcg atcatgaggt caggagtctg agaccagcct 60  
ggccaacatg gtgaaactcc gtgtctacta aaaatacaaa aattggctgg gccgtggtgg 120  
ttcgcacctg tagtcccagc tactgggggg gctgaggcag gagaatggct tgaacccggg 180  
agggtagagg ttgcagtgag ccaagattgt gccactgcac tccagcctgg gcgactgagc 240  
aagactgtct aaaaaaaaaa aaaaataaat aaagnaa 277

<210> 48  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
<222> (1)...(393)  
<223> n = A,T,C or G

<400> 48  
gccgtcgttt tacaccccg n aanaancnat ancnatgatn gntgccngtc ccnctcnna 60  
nagnaataat aaaantaatt aangcgggtg attaaatttc agtccattat gatttttcctt 120  
tctcacataa ttactttttt ctttttagac ttataagcta gcaattacag atttaactac 180  
agctatcagc atggacaaaa atagttatac agcattttat aacagagcat tatgttacac 240  
caagataagg gaacttcaaa tggcattaac agattatgga attgtgctgc ttcttgatgc 300  
tacagaaact gtnaaactaa ataccttcct taatcgtgga ctcactctacg tagaactagg 360  
ccagtatggc tttgcactag aggattttta aac 393

<210> 49  
<211> 228  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(228)  
<223> n = A,T,C or G

<400> 49  
ctnctgangnt acttntctaga aattaattaa gggcggggnt agancaaaaa aaaataaaac 60  
aacaacaaaa aaaaacnaaa aatanaaaaa aaaaaanaaa nnnannnaan nnaaaantaa 120  
aaattnnnta tttattttta antaaaaant atactnaact aattatttna attaaagaaa 180  
aaataantaa aaaaattnat aaanaataaa tnttaaataa aaaatatt 228

<210> 50  
<211> 158  
<212> DNA  
<213> Homo sapiens

<400> 50  
agtacttcta gaattaatta aggcggggag aggaggctct caataaataa tcgtgtaacc 60  
ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 158

<210> 51  
<211> 112  
<212> DNA  
<213> Homo sapiens

<400> 51  
agtacttcta gaattaatta aggcggggcaa taaaagttgt catggtgtgt aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 112

<210> 52  
<211> 345  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(345)  
<223> n = A,T,C or G

<400> 52  
tgggtgccgg gccccccctc gagagtactt ctagaattaa ttaaggcggg agaaaaggaa 60  
aagacattcc agacaaaaag actaacttgt cagaaagccc tgtggcggaa gggagctttt 120

```
ccaatatgaa gaactgagcc tggagagatg ggatgagggg gagtgtcgaa ccttttaggc 180
tttgtaaagg agttttggtt ttctcctaata agcaatggga tatcttccaa ggaatctcaa 240
tcaaaagggg gagatggctc cgattggaat gtcacccctg gctgaagagt agaggaagca 300
aaaaaaaaa aaaaaaaaaa annnnnnnnn cccnntnttt tttttt 345
```

<210> 53  
<211> 549  
<212> DNA  
<213> Homo sapiens

```
<400> 53
cccttagcgt ggtcgcggcc gaggtacttg gtggaccacc atcacaccct cctgtgcaat 60
gggtattggc ttgcctggct gattcatgtg ggagagtcct tgtatgccat agtattgtgc 120
aagcataaag gcatcacaag tggtcgggct cagctactct ggctcctaca gactttcttc 180
tttgggatag cgtctctcac catcttgatt gcttacaac ggaagcgcca aaaacaaact 240
tgaagttgtc tgaaagcttg ctctacactt ttacattcat cctcaccctt ttttttgttg 300
ggtagaggag gtgcagtaat ttactcagtg atctttctac tttctagaaa ctgtccttca 360
aagctcttta agacccctc gttagtcagt tttttctctt atatgctctg gttgagcttg 420
aatagaccag ttgttactta agaaagaaac agagaaagat tttagctttt caatcctatt 480
tggcagagga cttcagctac cttcttacag tctttggctg tgttggtacc tgcccgggcg 540
gccgctcga 549
```

<210> 54  
<211> 528  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(528)  
<223> n = A,T,C or G

```
<400> 54
gatatctgca gaattcgccc ttagcgtggt cgcgccgag gtacataaag cagattcaag 60
ggttaaaata aaaacagaat tttggagtgt ggtcaaataa ggtgcacaga ttccagaacc 120
ctcagagggc ctgctggccc tctccagaca ttctgtgtcc gtgggtgcagg agctggggcc 180
gtccctaaca gctccgact ggcttantgc agtgggtgctc acagtttcag gaactactag 240
gtgaagtgtc tggctcaagt ctgccaaagt tcttctactc atcgtcagaa gtggagcact 300
atccctaggt tcgattccca tgaaatattt tatgatttcc atcctctntg cccgctcttc 360
caaataaggc cctgtgatgc caacgaaggg ggcatgggtg aggggtctaag gctctcatta 420
anggcctaata tctgtgtggg atatcaacac atgacagaca cttgactgca acattcaaga 480
catttaaggc agtgggttca tttaatgact acttttccaa aataaata 528
```

<210> 55  
<211> 731  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(731)  
<223> n = A,T,C or G

```
<400> 55
cccttagcgt ggtcgcggcc gaggtacctc attagtaatt gttttgttgt ttcatttttt 60
tctaattgtc cccctctacc agctcacctg agataacaga atgaaaatgg aaggacggcc 120
agatttctcc tttgctctct gtcattctc tctgaagtct aggttaccce ttttggggac 180
ccattatagg caataaacac agttcccaaa gcatttggac agtttcttgt tgtgttttag 240
aatggnnttc ctttttctta gccttttctt gcaaaaggct cactcagtc cttgcttgct 300
caatggactg ggctcccagg gcctangctg ccttcttttc catgtccac ccatgagccc 360
tccactggac agcttantaa gcctggccct tcattctggc gctgtgttct ttctctggga 420
```



```
aaatcaatac ctcttacctt ctnttgcatt caaagatctt aaaggattgt caaactttca 480
aaacgttaca agnagaaccn nccannaagg tcctataaaa tgccagtaag tgacccttnt 540
caagctgtca aggcttttaa attaggantt tggggattta aatgctttgt ntttttttaa 600
agggaanaaa ataagagttg ctnnntttta aaaaatgcaa tgttttttta nccaattaaa 660
aatttnnccc caaacttttt ttaaaaagna aanaaaaaana ccncttttgg gagancggna 720
aaaaaaaaa a 731
```

```
<210> 56
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(514)
<223> n = A,T,C or G
```

```
<400> 56
cccttagcgt ggtcgcgggc gaggtacaag atgtgcatgc agtccaaggc catgaacgag 60
gcatcccacg gccagctggg catgctggtg ttcaggcacg agatagaggc tcaccttcgc 120
aaacagaagc agaagacaag tagcaaaaaa acatgaactc ccagagaagg attgtgggag 180
acactttttc tttccttttg caattactga aagtggctgc aacagagaaa agacttccat 240
aaaggacgac aaaagaattg gactgatggg tcagagatga gaaagcctcc gatttctctc 300
tgttgggctt tttacaacag aaatcaaaat ctccgctttg cctgcaaaag taaccagatt 360
gcaccctgtg aagtgtctga caaaggcaga atgcttgtga gattataagc ctaatggtgt 420
ggagggtttg atggtgttta caatacactn agacctgatg gttttgtggn gtcattgaa 480
aatattcatg aatttaaaga gcagtttttg gtna 514
```

```
<210> 57
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(409)
<223> n = A,T,C or G
```

```
<400> 57
cccttagcgt ggtcgcgggc gaggtactct ttctctcccc tcctctgaat ttaattcttt 60
caacttgcaa tttgcaagga ttacacattt cactgtgatg tatatttgtt tgcaaaaaaa 120
aaaaagtgtc tttgttttaa attacttggt ttgtgaatcc atcttgcttt ttccccattg 180
gaactagtca ttaaccatc tctgaactgg tagaaaaaca tctgaagagc tagtctatca 240
gcatctgaca gatgaaattg gatggttctc agaaccattt caccagaca gcctgtttct 300
atcctgttta ataaattaat ttttggggtt cctctaccat gccatagcaa aacccctgc 360
ttccaaattc ttgtcaacaa ttaaaaagtc tgntggacct tggaagttt 409
```

```
<210> 58
<211> 553
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(553)
<223> n = A,T,C or G
```

```
<400> 58
ttttccnttt tttttttttt tttttttttt tccccnccaa gctttatcta gncttagact 60
ttttaaaaaa gtttgggggc agattctgaa ttggctaata gacatgcatt tttaaaacta 120
gcaactctta tttctttcct ttaaaaatac atagcattaa atcccaaata ctatttaaag 180
```

```
acctgacagc ttgagaaggt cactactgca tttataggac cttctggtgg ttctgctgtt 240
acgtttgaag tctgacaatc cttgagaatc tttgcatgca gaggaggnaa gaggtattgg 300
attttcacag aggaagaaca cagcgcagaa tgaagggcca ggcttactga gctgnccagt 360
ggaggggtca tggnggggac atggaaaaga aggcagccta ggccctgggg agcccagtc 420
actgagcaag caagggactg agtgagcctt ttgcaggaaa gggctaanaa aaaggnaaac 480
cattctaaaa cacancaaga aactggccaa atgctttggg aactgggggtt attggccnat 540
aatggggccc caa 553
```

<210> 59  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(579)  
<223> n = A,T,C or G

```
<400> 59
cccttttcgag cggccgcccgc ggcaggtact tttttttttt tttttntttt ttttcgcct 60
ccccaaagct ttatttntnt tganttttta aaaaagtttg ggggcanatt ctgaattggc 120
taaaanacat gcattttttaa aactagcaac tnttatttnt ttccttttaa aatacatagc 180
attaaatccc aaatcctatt taaagacctg acagnttgan aaggtcacta ctgcatttat 240
aggaccttct gngggttctg ctgttacgtt tgaagtctga caatccttga naatntttgc 300
atgcanagga ggtaanaggt attggatttt cacagaggaa gaacacagcg canaatgaag 360
ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga aaanaaggca 420
gcctaggccc tggggagccc agtccactga gcaagcaagg gactgantga gccttttgca 480
ggaaanggct aanaaaaagg aaaaccattc taaaacccaa cangaaactg tccaaatgct 540
ttgggaactg ggtttattgc ctataaaggg tccccaaaa 579
```

<210> 60  
<211> 71  
<212> DNA  
<213> Homo sapiens

```
<400> 60
ctcgagccgg ctcgccagtg tgatgggata tctgcagaat tcgcccttag ccgtggtcgc 60
ggcccgatgt a 71
```

<210> 61  
<211> 552  
<212> DNA  
<213> Homo sapiens

```
<400> 61
cccttagcgt ggtcgcggcc gaggtaccta gaaaacagaa acttgagtag acatggtaat 60
gaccagaaaa ggctatcttt atacatttct tttgctacgc ttcaaattca tgtcacctaa 120
aagttgtgaa gtgcacaaaa caaatctact taactgaaaa ttattttcaa tgaatgggat 180
gtttagaact ctgtgagggt ttttaagggt ttttcgaata gcaaattcta atgaggcttt 240
tttaagttgg caatttaaac tcatacaaga aataaaaaact caccagtgtg gctgggcaga 300
atatatatat tttctcaaat attgtttgtt tgttttttcc ctgcactgta tccatgggtcc 360
catgatgaaa ctgttatatt gctgatatat ttattggaat atgtgggcca acttcccttc 420
cactcaacat atggatttgt agtttaaaat aattcctttc tattaagcaa atgtgtggct 480
aaggcacatt taaatagccc attaaaccaa tggagatgac aatgtgttac cctcagagaa 540
agcttaattt tt 552
```

<210> 62  
<211> 463  
<212> DNA  
<213> Homo sapiens

<400> 62  
cccttttcgag cggccgcccg ggcaggtact atatggacac cagcatggag cagaaaatga 60  
gggcagcagt gtccaatctc attccagggtg agaagttgca cagtgtccaa taggtgcata 120  
catctcctta gtaagtagtt gtgattaaca atgaaataga aatgaaaaat atattttttt 180  
atttatgtgt attatatattt tcaggcagct aataagttgg taggcataa tattttaattc 240  
gttggggacc taattatttt taaattgaat ggtagatat ttcttttggc ctaagccacc 300  
atgaaaaaat cactgaggcg ctaagggaaa catgaactaa gaagcccttc tgagtctctg 360  
ttttctcaac tgtaagatga agaaacctgc tccaccttcc tcttgcgatt gtcgaacggc 420  
agttgagata ctgcgccaga atggaccctt attgatggcc tac 463

<210> 63  
<211> 663  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(663)  
<223> n = A,T,C or G

<400> 63  
cccttttcgag cggccgcccg ggcaggtacc tcattagtaa ttgttttggt gtttcatttt 60  
tttctaattgt ctcccctcta ccagctcacc tgagataaca gaatgaaaat ggaaggacag 120  
ccagatttct cctttgctct ctgctcattc tctctgaagt ctaggttacc cattttgggg 180  
acccattata ggcaataaac acagttccca aagcatttgg acagtttctt gttgtgtttt 240  
agaatgggtt tcctttttct tagccttttc ctgcaaaaagg ctactcagt cccttgcttg 300  
ctcaagtgga ctgggctccc cagggcctag gctgccttct tttccatgtc caccatgag 360  
ccctccactg gacaagctca gtaagcctgg cccttcattc tgcgctgngt tcttctctgt 420  
gaaaatccaa tacctcttac cttctctgca tgcaaaagatt ctcaaggatt gcagacttca 480  
aacgtaacag cagaaccacc agaaggctct ataaatgcag tagtgacctt ttcaagctgt 540  
caggccttta aatangaatt tgggaattta atgctatgta tttttnaaag gaaagaaata 600  
agaagttgct tagntttnaa aatgcatgtc ttttanccca attaaaaatt tgcccccaaa 660  
ctt 663

<210> 64  
<211> 269  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(269)  
<223> n = A,T,C or G

<400> 64  
ngatatctgc anaattcgcc ctttcgagcg gccgcccggg caggtacaac tttttaaata 60  
gggaatatga tagcttngca tgggtggtgt cacctatagc cccactgcc tggaaagctg 120  
gggtgggaga atcgcttgag tccaggagtt tgaggttaca gtgatccacg atcnngccac 180  
tacactccag cctgggcanc agagcaagac cctgtntcaa agcataaaat ggaatnacat 240  
atcaaatgaa acanggaaaa tgaagctga 269

<210> 65  
<211> 194  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(194)  
<223> n = A,T,C or G

<400> 65  
cccttttcgag cggccgcccc ggcaggtacc tttttttttt tttttttttt tccgtctccc 60  
caaagcttta tctgtcttga ctttttaaaa aagttnnggg gcanattntg aattggntaa 120  
aagacatgca tttttaaaac tagcaactct tatttctttc ctttaaaaat acatagcatt 180  
aaatcccaaa tcct 194

<210> 66  
<211> 69  
<212> DNA  
<213> Homo sapiens

<400> 66  
gcatgctcga gccggccgcc agtgtgatgg gatattctga gaattcgccc tttcgagcgg 60  
cccgcccg 69

<210> 67  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 67  
cccttttcgag cggccgcccc ggcaggtaca agctatcttt tgctccaaaa cagttctgaa 60  
ggttttattt atattttatc ttatcccag ggaaccaacag caggcatacc tttgccaggc 120  
cttcttgcag aaagacacag agccgtaaag gcaaaaaataa aattgcaata aagtatatgg 180  
tattgggggc agggagaacc agaaaccctc aaagagaacc aatttgtagc acgttctttt 240  
ttaaggctct acccctgtag aagtaagaaa cttagcctgcc tttttagcca tatgagagtt 300  
tcctccagag ccattcttcca aagtagcaga cttggccaag ttgcccaatg ccaataaagt 360  
gagttggaag ttcgtttgct tcaaacacac tgcacttaga aaccagactt gaaataatcg 420  
aagccccaca gaaaagcttc atgaaacgaa gtgttacttt cctagagaat aagaaagtca 480  
caagattgag gagtctgttc taaagttct 509

<210> 68  
<211> 716  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(716)  
<223> n = A,T,C or G

<400> 68  
cccttttcgag cggccgcccc ggcaggtacc tcattagtaa ttgttttggt gtttcatttt 60  
tttctaattgt ctcccctcta ccagctcacc tgagataaca gaatgaaaat ggaagyacag 120  
ccagattttct cctttgctct ctgatcatc tctctgaagt ctaggttacc cattttgggg 180  
accattata ggcaataaac acagttccca aagcatttgg acagtttctt gttgtgtttt 240  
agaatggttt tcctttttct tagccttttc ctgcaaaaagg ctactcagt cccttgcttg 300  
ctcagtggac tgggctcccc agggcctagg ctgccttctt ttccatgtcc acccatgagc 360  
cctccactgg acaagctcag taagcctggc ccttcattct gcgctgtgtt cttcctctgt 420  
gaaaatccaa tacctcttac ctctcttgca tgcaaaagatt ctcaaggact ggcagacttc 480  
aaacgtaaca gcagaaccac cagaaaggcc tataaatgca gtagtgacct tctcaagctg 540  
cangtcttta aataggattt gggaattaat gctatgtant tttaaangga aagaaataag 600  
aagttgctag ttttaaaaat gcatgttttt aagccaattc aaaaattggc cccaactttt 660  
tttaaaaagt caagacaaga taaagcnttt ggggagaacg gaaaaaaaaa aaaaaa 716

<210> 69  
<211> 477  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
<222> (1)...(477)  
<223> n = A,T,C or G

<400> 69  
cccttagcgt ggtcgcggcc gaggtactca tgtatttttt ttttccagat ctctttcccc 60  
aagttgctat tgtaagagta ttctgctgcg tgtggatgca gttatacaca ttaaagcaga 120  
tctggagtct gaagtagcta taaagcagct ataaaacaga aatacatgca tagctgcaga 180  
aaccatgata ggtagaggac ttttcttttg gttttgtttt gttttgtttt 240  
tggtttttaca gagaagagat ttttattcaa agaaaaaaat tccagtgaat tgtgcacaaa 300  
tgctggtttt tacaccatcc taaagaaaaa ctttacaagg ggtgttttgg agtanaaaaa 360  
aggttataaa gttggaatct taaattgtna aattaacat tgagtgtcaa ggntctaaaa 420  
gcagaactta ttttgtgcaa tgaacataa gaaagactac tgtatagggt tttttt 477

<210> 70  
<211> 380  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(380)  
<223> n = A,T,C or G

<400> 70  
ccctttcgag cggccgcccc ggcaggact cagacaaata caacgtgccc atttcgtcag 60  
atattgcgca gaaccaagaa ttttataaga acgcagaagt tagaccacca tttaccgtat 120  
gcatntttta ttaaggcagg ccattctcga atctccagaa aagcagctaa cactaaatga 180  
gatctataac tggttcacac gaatgtttgc ttacttccga cgcaacgcgg ccacgtggaa 240  
gaatgcagtg cgtcataatc ttagtcttca caagtgtttt gtggcgagta gaaaacgtta 300  
aagggggcag tatgggacag tggattgaag tangaattcc aaaaacgaag ggcccaaaaa 360  
ggatcagtgg gtaacccttt 380

<210> 71  
<211> 377  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(377)  
<223> n = A,T,C or G

<400> 71  
ntnttagcgt ggtcgcggcc gaggtacttt ttgcttttanc agatagatag ggcattccaat 60  
acaactgaaa caacctgata acaaattaat tttatttttc aataaaaaagg aatgctctgg 120  
ttttttaact ggctccttga ggaagccaga agatggcatc tgctctttta acaggcttct 180  
cttatctgat ttgagacaca aatccaccaa gnattctttc ttacagtgga agtaggcacc 240  
accctcaga tcacgaggcc cctaggnaag aagcctgtgg gaaatcagcc ctgtgatgtt 300  
gtgggtgggt gggccagcac ctagaagaca catggtnngt tgtgcaacat aaaatcccct 360  
tcaagcggac tcagtgg 377

<210> 72  
<211> 379  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(379)  
<223> n = A,T,C or G

<400> 72  
cccttagcgt ggtcgcggcc gaggtactct ggatcatctt gttcgtttgg tcgtgcaagg 60  
tgttaactat ttctacttcc catatcacaa agttagtcca caggaggagc tggaggatct 120  
tgtccattat gaggactggg tggctttcca ggtaggctgg atcctcttag attaggaggg 180  
tctcagtaaa gaacaagatc aatgcaanta accatccagg ctaccaagat cattgttaac 240  
actgatgcc aatcaccag agggccccgg taaattcctt gaagacactc tgtgtctgtt 300  
gcangtanga ctgggactnc cgtaacagat tgatcaagnt cttctcantt gcatgttcat 360  
ggagagcaaa cacattcac 379

<210> 73  
<211> 403  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(403)  
<223> n = A,T,C or G

<400> 73  
cccttagcgt ggtcgcggcc gaggtcggcc gaggtacttt attttcaaaa cactcatatg 60  
ttgcaaaaaa cacatagaaa aataaagttt ggtggagggt ctgactaaac ttcaagtcac 120  
agacttttat gtgacagatt ggagcagggg ttgttatgca tgtagagaac ccaaactaat 180  
ttattaaaca ggattagaaa caggctgtct gggtgaaatg gttctgagaa ccatccaatt 240  
cacctgtcag atgctgatag actagctctt tcagatgttt ttttctacca gttcagaaga 300  
tngggtttaa atngacctag ttccaatggg ggaaaaaagc aagaatggga tttcacaaaa 360  
cccaaggtna tttttaaac aaaagacccc tttttttttg gca 403

<210> 74  
<211> 378  
<212> DNA  
<213> Homo sapiens

<400> 74  
cccttagcgt ggtcgcggcc gaggtacat gctgacttct tggatatctt taaggcctaa 60  
ttttcccttc cttgagatta ctgtagtgtg ttccagctaa tttctatttg gaaacgagtt 120  
ggaacagctg aaactgggt attattgaag gcaaagcagc ctacagtcag ttttttatca 180  
gctcatttgg gaagtttttt tttttttttt tttaattaat tagaaagtag gctgggcacg 240  
gtggctcatg cctataatcc cagcacttgg ggaggccgag gatctcctct ctgggtggatc 300  
acttgagggc aggagttaag agaccatcct ggccaacatg atgaaaccct gtctctacta 360  
aaaatacaaa aagtagct 378

<210> 75  
<211> 385  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(385)  
<223> n = A,T,C or G

<400> 75  
cccttagcgt ggtcgcggcc gaggtacaga atttattatg aaatagctta atggcaagtg 60  
gtaatttaga agaattaagt tatcagatag gagatatatt aaaatatatta aaaattggat 120  
atattcttga agccctttta cacaagtaat ttctataatt tgattgtaat gaaagtataa 180  
tataccttgt tactattatc aggattaatt tttgaaagta gaattcctta atcaagccaa 240  
ggttaatgct gcttttatagg aaattaatca ggtagttaa cactagagct cattagccca 300  
acctgtatgt agcacaaaaa taaatcattc tctgataaat nccntattaa aatantattt 360  
tttaattcat acctttttta aataa 385

<210> 76  
<211> 691  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(691)  
<223> n = A,T,C or G

<400> 76  
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ccgtctcccc 60  
aaagctttat ctgtcttgac tttttaaaaa agtttggggg cagattctga attggctaaa 120  
agacatgcat ttttaaaact agcaactcct atttctttcc tttaaaaata catagcatta 180  
aatcccaaat cctattttaa gacctgacag cttgagaagg tcactactgc atttatagga 240  
ccttctggtg gttctgctgt tacgtttgaa gtctgacaat ccttganaat ctttgcattgc 300  
agaggaggta agaggatttg gattttcaca gaggaagaac acancgcaaa atgaagggcc 360  
aggcttactg agctgtccag tggagggtc atgggtggga catggaaaag aaggcagcct 420  
aggccctggg gagcccantc cactgagcaa gcaagggact gagtgagcct ttncaggaaa 480  
aggctaanaa aaaggaaaac catttttaaaa cacaacaaga aacttgtcca aatgcttttg 540  
gaaccngttt tattgcctat aatgggtccc ccaaatggg taacctaaac tttaaaagan 600  
aatgaaccn anagcnaag gaaaaatctg gcttgccctt ccattttcat tctnttatnt 660  
taagngacc tttttnangg ggancctttt n 691

<210> 77  
<211> 697  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(697)  
<223> n = A,T,C or G

<400> 77  
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt ttttttttcc gtctcccca 60  
agctttatct gtcttgactt ttttaaaaaa tttgggggca gattctgaat tggctaaaag 120  
acatgcattt ttaaaactag caactcttat ttctttcctt taaaaataca tagcattaaa 180  
tcccaaattc tatttaaga cctgacagct tgagaagggt actactgcat ttataggacc 240  
ttctggtggt tctgctgtta cgtttgaaat ctgacaatcc ttgagaatct ttgcatgcag 300  
aggaggtaag aggtattgga ttttcacaga ggaagaacac agcgaggat gaagggccag 360  
gcttactgag ctgtccagtg gaggggtcat ggggtgggca tggaaaagaa aggcagccta 420  
agccctggg agcccaatcc gctgagcaag caagggactg antgagcctt ttgcaggaaa 480  
aggcttanaa aaangaaaac cattnttaaa aacaacaaga aacttttcca aatgctttng 540  
gaaccggggt tattggccat aaatgggncc ccaaatggg taanccaaac tttaaaaaan 600  
atganccgaa ancaaagggn aaaatctggg tggcccttcc atttnattnt ngtannncaa 660  
agggaacctg gnnnaagggg ggnccctttt aaaaaaa 697

<210> 78  
<211> 582  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(582)  
<223> n = A,T,C or G

<400> 78  
cccttagcgt ggtcgcggcc cgaggactt tttttttttt tttttttttt ttccgcctc 60

```
cccaaagctt tatctgtctt gacttttttaa aaaagtttgg gggcagattc tgaattggct 120
aaaagacatg cttttttaaa actagcagct cttatttctt tccttttaaaa atacatagca 180
ttaaatccca aatcctatct aaagacctga cagcttgaga aggtcactac tgcattttata 240
ggaccttctg gtggctctgc tgttacgttt gaagtctgac aatccttgag aatctttgca 300
tgcagaggag gtaagaggta ttggattttc acagaggaag aacacagcgc anaatgaagg 360
gccaggctta ctgagctntc cagtggaggg ctcatgggtg ggacatggaa aanaaggcag 420
cctangccct ggggagccca ntccactgag caagcaaggg actgantgag ccttttgca 480
gaaaaggctt aaaaaaggga aaaccattct aaaacacaac aaggaaactg tccaaatgct 540
ttgggaactg ggtttatatt cctattatgg ggtcccaaaa aa 582
```

<210> 79

<211> 580

<212> DNA

<213> Homo sapiens

<400> 79

```
cccttagcgt ggtcgcggcc gaggtactac aaaaacagaa taattttgaa gttttagaat 60
aaatgtaata tatttactat aattctaaat gtttaaatgc ttttctaaaa atgcaaaact 120
atgatgttta gttgctttat tttacctcta tgtgattatt tttcttaatt gttatttttt 180
ataatcatta tttttctgaa ccattcttct ggctcagaa gtaggactga attctactat 240
tgctaggtgt gagaaagtgg tggtgagaac cttagagcag tggagatttg ctacctggctc 300
tgtgttttga gaagtgcccc ttagaaagt aaagaatgt agaaaagata ctacgtctta 360
atcctatgca aaaaaaaaaat caagtaattg ttttcctatg aggaaaataa ccatgagctg 420
tatcatgcta cttagctttt atgtaaatat ttcttatgtc tcctctatta agagtattta 480
aaatcatatt taaatatgaa tctattcatg ctaacattat ttttcaaaac atacatggaa 540
atttaacca attgtctcat ataaggtttt atttgaattg 580
```

<210> 80

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(596)

<223> n = A,T,C or G

<400> 80

```
ccctttcggc ggcccgcccg ggcagggtacc tgggggtctca gggttgctct gggcctgac 60
atccactcag atctgtaagg aggatttgca ggatccattt agaaagatcc tcccttactt 120
ccacaagcat ggcctttggc tcttaaatac ctgtgctggg gttttgtaat tatagaaaca 180
acaggaacca aaactcatta atgttgagct acaaaccaga gggaagcttc tttctcaaaa 240
cagggtcag gcctagaaaa atctagtttt ctgaaatcgc tagccagcaa cagcactgag 300
atggccatcc cagaaacaag gccaacacag aagcaccat aaaggccgct ggaggttggg 360
acaaagagat ccttgctgtc cttacagacc ccctgacttc caaggagctc ccctcttacc 420
cagcctggcc tgccttctcc acagggtagc tgatcgtcag catcatcttc aatggtgttg 480
ccaaaagcac tcaantgctc ctgccatccc tgtccatctt caacatgaaa aggagaggtt 540
agcacttcaa cctgggcgac tgagcaagan ttcattctta aaaaaaaaaa aaaatt 596
```

<210> 81

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(209)

<223> n = A,T,C or G

<400> 81

```
cccttagcgt ggtcgcggcc gcccgggcag gtactttttt tttttttttt tttttttacc 60
```



```
ggctcccaaa agctttatct gtcttgactt tttaaaaaag tttgggggca nattctgaat 120
tggctaaaag acatgcattt ttaaaactag caactcttat ttctttcctt taaaaataca 180
tagcattaaa tcccaaatcc tattttaaag                                     209
```

<210> 82  
<211> 46  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(46)  
<223> n = A,T,C or G

```
<400> 82
atctgcagaa ttcgccctta ncgtgggtcgc ggccgaggta cttttt                                     46
```

<210> 83  
<211> 601  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(601)  
<223> n = A,T,C or G

```
<400> 83
cccttagcgt ggtcgcggcc cgaggnacca tgatatcatg tctcctgctt ggacattntg 60
ggaaaggggg accagctggg tggccaattt atcctacagg tcttggaagg ngggacctct 120
tcaaaaagaag atctggtaag ggcaagcagc acaagtggcc atggaaaaag aaaaactcta 180
cannatattt ccgaggatca aggacaagtc caaaacgaga tcctctcatt cttctgtctc 240
ggaaaaaccc aaaacttggt tgatgcagaa tacaccaaaa accagcctgg aaatctatga 300
aagatcctta ggaaangcca gctgctaagg atgtccatct tgtggatcac tgcaaataca 360
agtatctggt taatttttcca ggcgtaactg caagttttcc gggttaaacac ctcttcctgt 420
gtggctcact tggtttccat gttnggtgat gaagtggcta gaattcttct atccacagct 480
tgaagccntg gggtcactat attccaagtc aaaacagatc tcttcaatgt ccaanagctg 540
ttacaatttt gaaaaaccaa atgatgatgt aacttcaaga aaattgcttg aaagggggaa 600
g                                                                                   601
```

<210> 84  
<211> 570  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(570)  
<223> n = A,T,C or G

```
<400> 84
cccttagcgt ggtcgcggcc gaggtaccac aaaaacagaa taattttgaa gttttagaat 60
aaatgtaata tatttactat aattctaaat gtttaaatgc ttttctaaaa atgcaaaact 120
atgatgttta gttgctttat tttacctcta tgtgattatt tttcttaatt gttatttttt 180
ataatcatta tttttctgaa ccattcttct ggcctcagaa gtaggactga attctactat 240
tgctaggtgt gagaaagtgg tgggtgagaac cttagagcag tggagatttg ctacctgggc 300
tgtgttttga gaagtgtccc ttagaaaagt aaaagaatgt agaaaagatc tcagtcttaa 360
tcctatgcaa aaaaaaaaaa caagtaattg ttttcctatg aggaaaataa ccatgagctg 420
tatcatgcta cttagctttt atgtaaatat ttcttatgnc tcctctatta agaagtattt 480
aaaatcatat ttaaatatga atctattcat gctaacatta ttttcaaaac atacctggaa 540
attaaccag aatggctaca tataaggggtt                                     570
```

<210> 85  
<211> 724  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 85  
ccctttcgag cggccgcccg ggcaggtacc tcattagtaa ttgttttggt gcttcatttt 60  
tttctaattgt ctccctctta ccagctcacc tgagataaca gaatgaaaat ggaaggacag 120  
ccagatttct cctttgctct ctgctcattc tctctgaagt ctaggttacc cattttgggg 180  
acccattata ggcaataaac acagttccca aagcatttgg acagtttctt gttgtgtttt 240  
agaatggttt tcctttttct tagctttttc ctgcaaaagg ctcaactcaag tcccttgctt 300  
gctcagtggg ctgggctccc cagggcctag gctgccttct tttccatgtc ccacccatga 360  
gccctccact ggacagctca gtaagcctga cccttcattc tgcgctgtgt tcttcctctg 420  
tgaaaaatcca atacctctta cctcctctgc atgcaaagat tctcaaggat tgtcagactt 480  
caaacngnac agcagaacca ccagaaggtc ctataaatgc agtaagtga cttctcaagc 540  
tgtcaggtct ttaaatagga tttgggattt aatgctatgt atttttaaag gaaagaaata 600  
agaagtgtgt agttttaaaa atgcatgtct ttagccaat ttagaatctg gccccaaact 660  
tttttaaaaa gtcaaagaca gataaagctt tngggagacg gaaaaaaaaa aaaaaaaaaa 720  
aagt 724

<210> 86  
<211> 51  
<212> DNA  
<213> Homo sapiens

<400> 86  
cgccagtgtg atgggatatc tgcagaattc gccctttcgc ggccgcccgg g 51

<210> 87  
<211> 510  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(510)  
<223> n = A,T,C or G

<400> 87  
ccctttcgag cggccgcccg ggcaggtaca gtcacccac tacctggcta tttcattact 60  
tggtgctcta gacaagctcc aagaactgac tggatcttgg cttgctctgt ttctgtcatt 120  
gctaataata tatggaaaac attgctgaaa agaacagaga tggccatgga tatggctagg 180  
ttaggtattc atatccaaat atctgaactc taacctaatg tggatatgat tctgtagcat 240  
tatattaaaa gctatgatga tgcaatgcag gaaataacct ttcattctcc cccctagagg 300  
atcacgacag gtgctttcaa tgccctgcctt atctatggga caagtagtgt gattcttcaa 360  
gtgagaagtg aaagcctttg ggggatttga gtcangaagg ggaacatggc taaattgcct 420  
ggaaactctg ccaacaagtc tgcgggtaga ttctacttgt ctctgggata aaaaaatctg 480  
tgctcaatga aacttattgt gtttgaaaaa 510

<210> 88  
<211> 59  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
<222> (1)...(59)  
<223> n = A,T,C or G

<400> 88  
tgctcgagcc ggcccgccag tgcganggat atcngcaciaa ttcccccttt caagcggcc 59

<210> 89  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(255)  
<223> n = A,T,C or G

<400> 89  
ccgcggtggc ggccgaggta ccacaagata ttatgcatgc tccaatcgag caaaatgtcc 60  
atcataacaa atataaaatg tttccagaaa gtatcatagc gtggtttccc atctcctgta 120  
tggtcttaggc tccaaggtct gtgagttaat gctgttatta catcccgatc tgtttgctctc 180  
atcttgtaga taactttctgg caagaaagaa cagaccacac tattattata cagttgagga 240  
agctctagaa ctagn 255

<210> 90  
<211> 683  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(683)  
<223> n = A,T,C or G

<400> 90  
ccgcggtggc ggccgaggta cctcattagt aattgttttg ttgtttcatt tttttctaata 60  
gtctcccctc taccagctca cctgagataa cagaatgaaa atggaaggac agccagattt 120  
ctcctttgct ctctgctcat tctctctgaa gtctagggtta cccatttttg ggacccatta 180  
taggcaataa acacagttcc caaagcattt ggacagtttc ttgttggtgt ttagaatggt 240  
tttccttttt cttagccttt tcttgcaaaa ggctcactca gtcccttgct tgctcaagt 300  
gactgggctc cccagggcct aggctgcctt cttttccatg tcccacccat gagccctcca 360  
ctggacagct cagtaagcct ggcccttcac tctgcgctgt gttcttcctc tgtgaaaatc 420  
caatacctct tacntcctct gcatgcaaaag attctcaagg attgtcagac ttcaaaacgt 480  
nacagcagaa ccaccagaaa ggtcctataa aatgcagnta gtggaccttc ttcaagctgt 540  
cagggtcttt taaataggat ttgggggata taatggctat tgtattttta aaaagggaaa 600  
gnaaatnaag agtttgctag attcttaaaa aangccatgg tctttttanc caatttnaaa 660  
aatnttgccc cccaactttt ttt 683

<210> 91  
<211> 74  
<212> DNA  
<213> Homo sapiens

<400> 91  
tcgagcggcc cgcccgggca ggtacttttt tttttttttt tttgggattt tttaggtagt 60  
gggtgttgag cttg 74

<210> 92  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 92  
cgagggtacgt tcttctttcc cagttttctct acccttagct tctcctcacc ctcatTTTTgc 60  
cctgctggct gctcaaaacta tgcaacagat tgcgcatcct cgcttaccCa tggcccagtt 120  
tggaggaacc ttctcacctt ctcttaacac atggggacca ttcccagtgA gacctgtgaa 180  
tcttggaac acaaatagct ctccaaagca taataacaca agccgtctac ctaaccagaa 240  
cgggactgtt ttaccctcag agtctgctgg actagctact gccagttgtc ctatcactgt 300  
ctcttctgta gttgctgccA gtcagcaact gtgtgtcact aatacccgga ctcttcatc 360  
agtcagaaag cagttgtttg cctgtgtgcc taagacaagt cctccagcaa cagtgatttc 420  
ttctgtgaca agcacttgta gttccctgcc ttctgtctcc tctgcaccta tcaatagcgg 480  
gcaagctccc accacatttc tacctgcaag tacctgcccG 520

<210> 93  
<211> 382  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(382)  
<223> n = A,T,C or G

<400> 93  
ccgcggtggc ggccgcccgg gcagggtaccg atacagaaga agctgcgttt tgaagacacc 60  
ctggagtttg tagggtttga tgcgaagatg gctgaggaat cctcctcctc ctctcctca 120  
tcttcaccaa ctgctgcaac atctcagcag cagcaactta aaaataagag tatattaatc 180  
tcttctgtgg cttcggtgca tcatgcaaac ggctagcca aatcttctac caccgtctct 240  
agctttgcta acagcaaacc tggctctgct aagaagttag tgatcaagaa ctttaaagat 300  
aagcctaaat taccagaaaa ctacacagat gaaacctggc aaaaactgaa agaagcagtg 360  
gaagctattc anaatagtag ct 382

<210> 94  
<211> 396  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(396)  
<223> n = A,T,C or G

<400> 94  
ccgcggtggc ggccgaggtc tatatggacc acnaacatgg gagcagaaaa atgagggcag 60  
cagtgtccaa tctcattcca ggtgagaagt tgcacagtgt ccaataggtg catatctctc 120  
cttagtaagt agttgtgatt aacaatgaaa tagaaatgaa aaatatattt ttttatttat 180  
gtgtattata tttttcaagc agctaataag ttggtaggac ataataattt attcgttggg 240  
gacctaatTA tttataaatt gaatggttag atatttcttt tggcctaagc caccatgaaa 300  
aaatcactga ggcgctaagg gaaacattga actaagaagc ccttctgagt ctctgttttc 360  
tcaactgtaa gatgaagaaa cctgctccac ctctct 396

<210> 95  
<211> 379  
<212> DNA  
<213> Homo sapiens

<400> 95  
cgcccggggc aggtacctta gtgaggctca aaaggattct tttgggtcta ttttacgcct 60  
tatctttgaa attcaccact cgggtgagaa aggtgacatt gtagtctttc tggcctgtga 120  
acaagatatt gagaaagtct gtgaaactgt ctatcaagga tctaacctaa acccagatct 180  
tggagaactg gtggttggtc ctttgtatcc aaaagagaaa tggtcattgt tcaagccact 240  
cgatgaaaca gaaaaaagat gccaaagtta tcaaagaaga gtggtgttaa ctactagctc 300

tgagagagttt ttgatctgga gcaactcagt cagatttggt atcgatgtgg gtgtggaaaa 360  
gaaaaaagggt gtcctcggc 379

<210> 96  
<211> 779  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(779)  
<223> n = A,T,C or G

<400> 96  
cgagggtacct gtatgaggtc tcccagcccg aaggactagg ccaagccctc tgtgtgccat 60  
ctccaatgag aaggaatcct gccctcacct cacccttttc caacttgccc aggggaagtgg 120  
aggttccctc tttcctttcc tcttgaggc catccatgac tttagagaac agacacaagt 180  
gtatccagct gtccacgggt ggagctaccc gttgggctta tgagtgcct ggagtgcag 240  
ctgagtcacc ctgggtaagt tctcagagt gtcaggatgg cttgacctgc agaagatacc 300  
caagggtccaa aagcacgaag gtctgcggaa agttctgggt gtcggctggc accacggtta 360  
cacctataat cgagcacttt gggaggccaa gacaggagga tcgcttgaga ccaagagttt 420  
gagcctgcgg tgaagctgtg aatgcaccac ggcaactcaag cctggcaatg tagcaagatc 480  
ctgtctctac aagaaaattt tttaaaaatg agccaagtgt gggggtgcat gcctgtagtt 540  
tccagctact tnaggacact tacntangan ggttggtttg aaactgaaaa gttggaggct 600  
tgcaatnanc cttgaatgcc ccantggcct tcaacctggg gcgaaaaaa ccaagacccc 660  
atnttaaaaa aaaaaaaant tntngggtnn natttgaatt gggaaaaaaa aaaagcttgg 720  
agctttttgc ctttnggcn agngancat tagnaatttgg gattttngaa nggaatggg 779

<210> 97  
<211> 535  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(535)  
<223> n = A,T,C or G

<400> 97  
cccttagcgt ggctcgggcc gaggtaccgc ttgctgctgc catgtgtgtg cttaaaacag 60  
ggttcctttt tgtagcatca gaatttggaa accattactt atatcaaatt gcacatcttg 120  
gagatgatga tgaagaacct gagttttcat cagccatgcc tctggaagaa ggagacacat 180  
tcttttttca gccaaagacca cttaaaaacc ttgtgctggt tgatgagttg gacagcctct 240  
ctcccattct gttttgccag atagctgac tggtccaatga agatactcca cagttgtatg 300  
tggcctgtgg taggggaccc cgatcatctc tgagagtcct aagacatgga cttgaggtgt 360  
cagaaatggc tgtttctgag ctacctggta accccaacgc tgtctggaca gtgcgtcgac 420  
acattgaaga tgagtttgat gcctacatca ttgtgtcttt cgtgaatgcc accctagtgt 480  
tggccattgg agaaactgta gaagaagtga ctgactctng gttcctgggg accac 535

<210> 98  
<211> 231  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(231)  
<223> n = A,T,C or G

<400> 98  
aggctactctc gtttcagctg ggctcttatg gccaacccgct cggcttgccg ccgcccgggtt 60

```
tccggantat atgttgattt cggctgggtc gaggggtctca ggcagagtgc gcaggctcga 120
cggcttatac tttgggaacg acatcttggc gaaccagggc gcaattgcgc ctgcgcgatt 180
ctgaggccct ttgtctatgc tgaccttcag cttccccgcg gtacctgccc g          231
```

<210> 99

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(229)

<223> n = A,T,C or G

<400> 99

```
ccgcggtggc ggccgcccgg ncaggtagcg ggggctgggc gcggggaact gaaagccgga 60
aggggcaaga cgggctcagt tcgtcatggg gctgttttga aagaccagg agaagccgcc 120
caaagaactg gtcaatgagt ggtcattgaa ggtaagaaaa ggaaatgaga gttgttgaca 180
ggcaaataag ggatatccan gaaaaaaaaa aaaaaaaaaa nagtacctt          229
```

<210> 100

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(513)

<223> n = A,T,C or G

<400> 100

```
cgaattggag ctccacccgc ggtggcgggc cgcccgggca ggtacttttt gcttttagcag 60
atagataggg catccaatac aactgaaaca acctgataac aaattaattt tatttttcaa 120
taaaaaggaa tgctctggtt ttttaactgg ctccctgagg aagccagaag atggcatctg 180
ctcttttaac aggtcttctt tatctgattt gagacacaaa tccaccaaga ttctttctta 240
cagtgggaag aggcaccacc cctcagatca cgaggccccct aggaagaagc ctgtggaaat 300
cagcctgtga tgtgtggttg tgggccagca cctagaanac acatggtggt tgtgcacata 360
aatcccttca gcggactcag tggaaggatg agaattctga aagtccatgc acattttatt 420
gagtaggtaa tataaaaatg ctttttcttt ttcatttggtt acaagtgcac gctttgantg 480
cccaccatnt tcagaagtca aaattacaaa agg          513
```

<210> 101

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(658)

<223> n = A,T,C or G

<400> 101

```
ccgcggtggc ggccgcccgg gcaggtagcg gggcggggat gggagccacg cctgaactag 60
agttcaggct ggatacatgt gctcacctgc tgctcttgtc ttccctaagag acagagagtg 120
gggcagatgg aggagaagaa agtgaggaat gagtagcata gcattctgcc aaaagggccc 180
cagattctta atttagcaaa ctaagaagcc caattaaaaa gcattgtggc taaagtctaa 240
cgctcctctc ttggtcagat aacaaaagcc ctccctgttg gatcttttga aataaaacgt 300
gcaagttatc caggctcgta acctgcatgc tgccaccttg aatcccaagg agtatctgca 360
cctgnaatan ctctccaccc ctctctgcct ccttactttc tgtgcaanat nacttccttg 420
gttaacttcc ttctttccat ccaccacccc actgaaatct ctttccaaac atttttccat 480
tttcccacaa atngnctttg attaacntnc ctctctccat gcctncaaan ctccaaattt 540
```

ttggggaaag ctgtaccttc anccnctcta aaactaatgn atccccccgn ctncagaat 600  
tcnatatcaa acttatcaat acctcacct caaagggggg cccantacc aacttttn 658